

FIG. 1

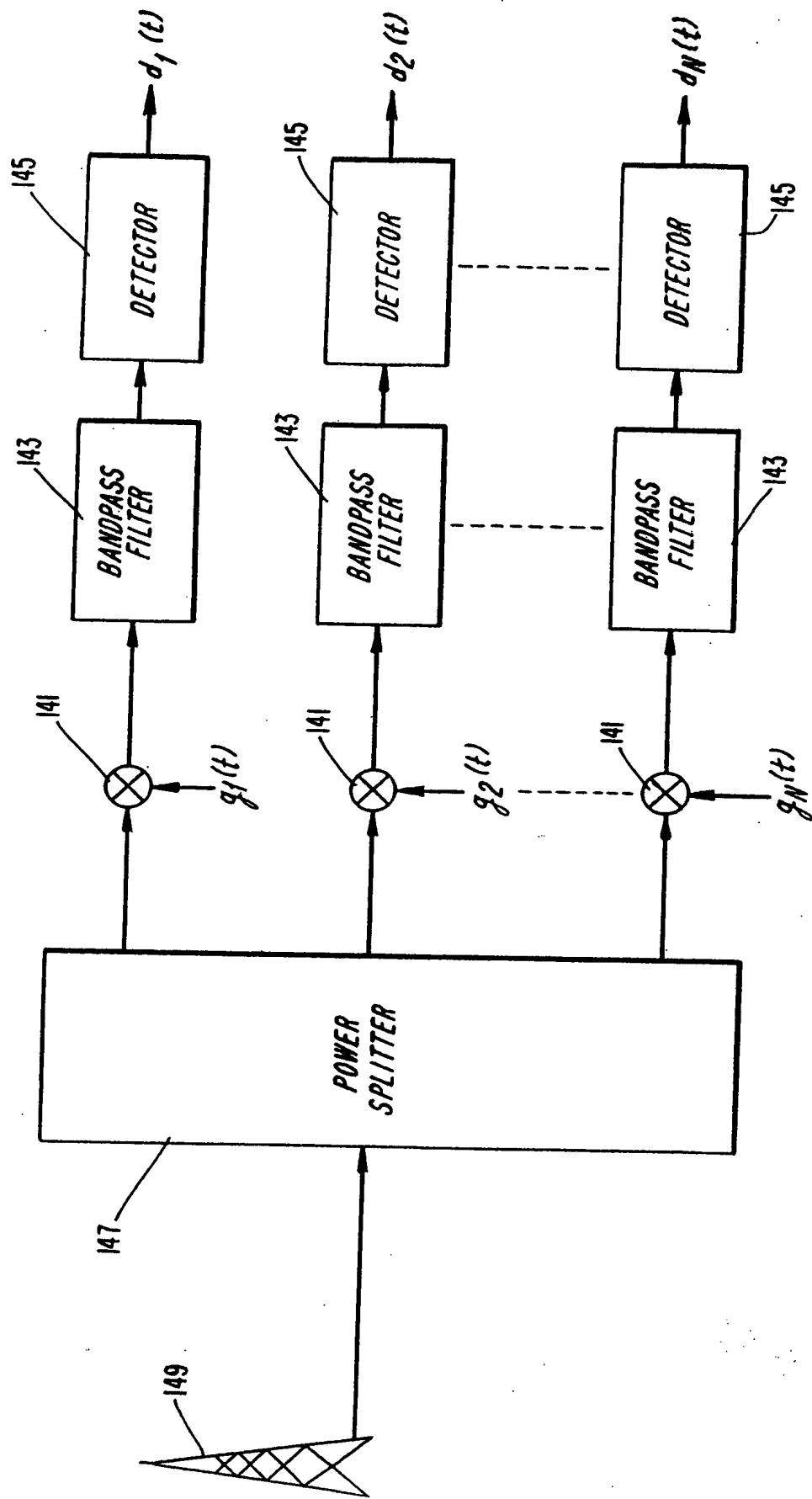
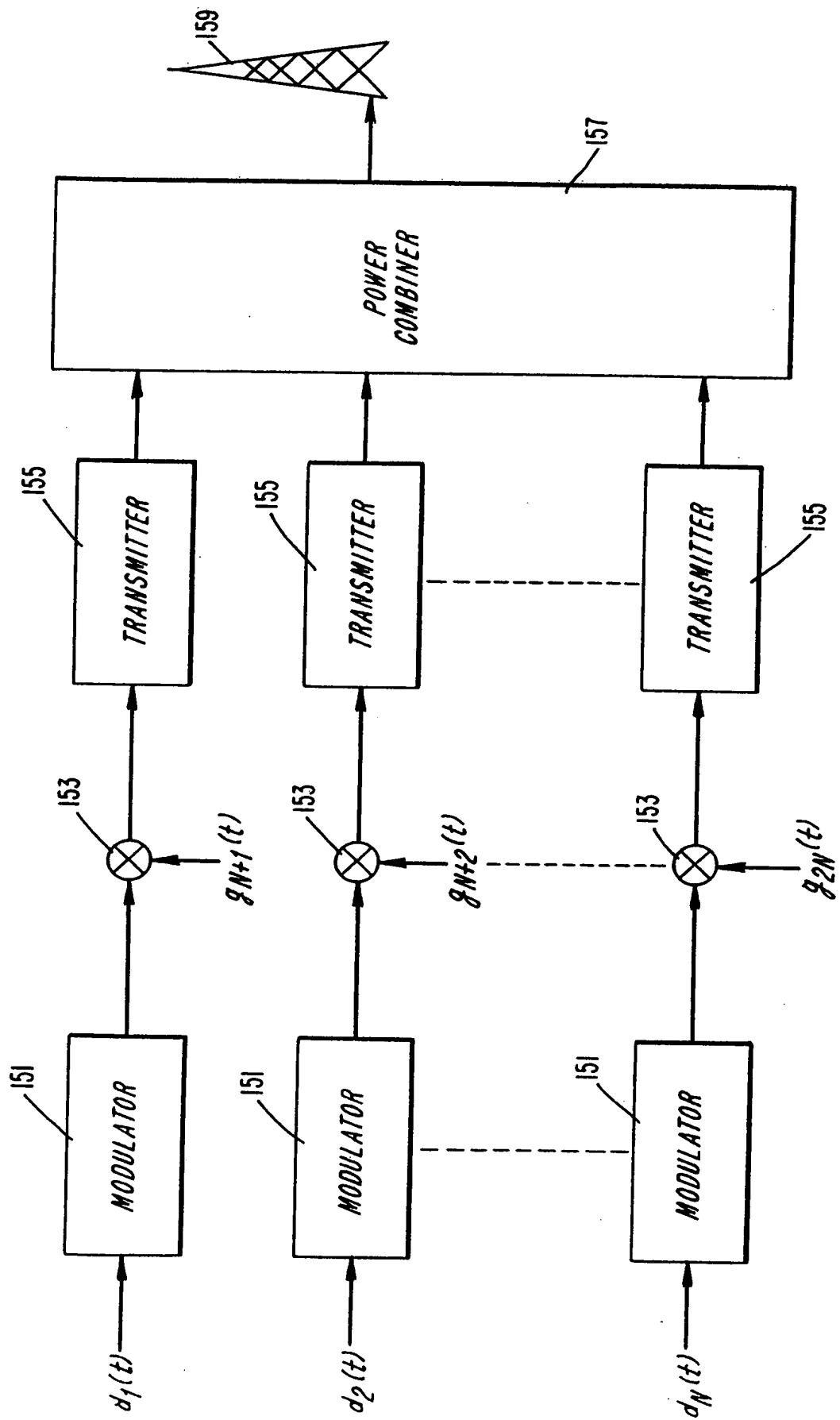
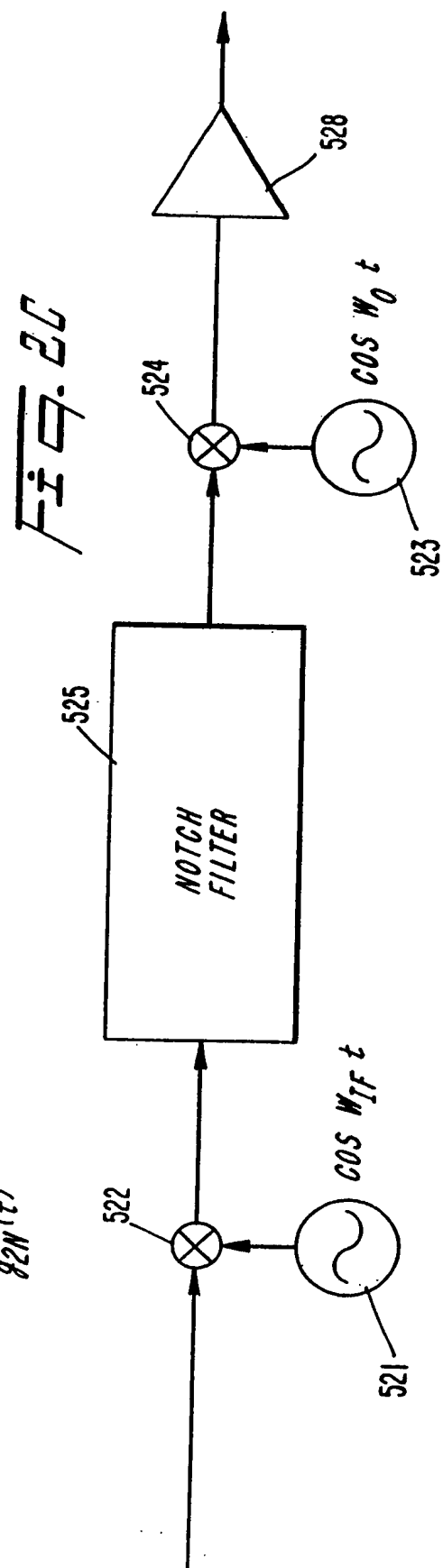
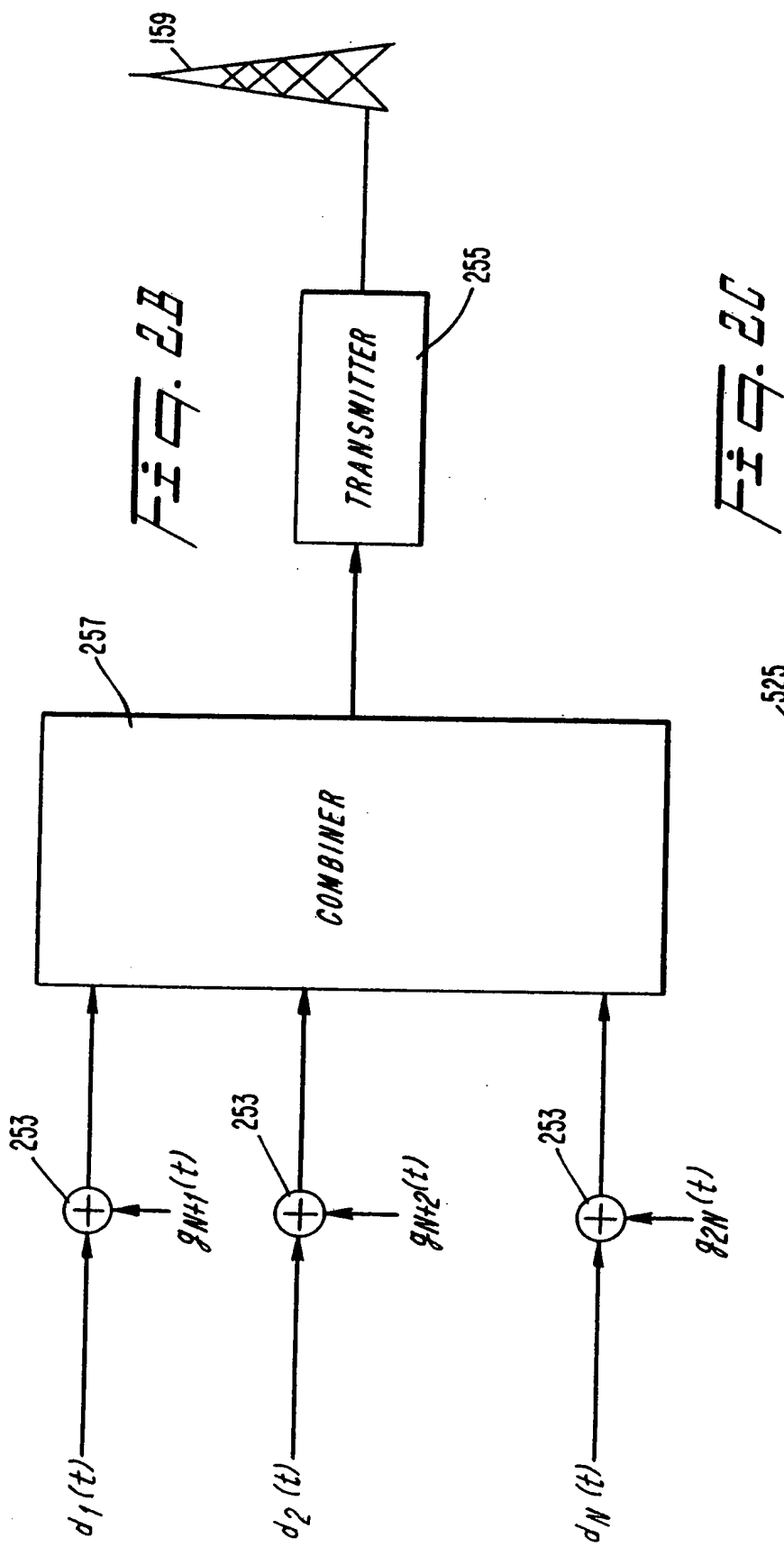


FIG. 2A





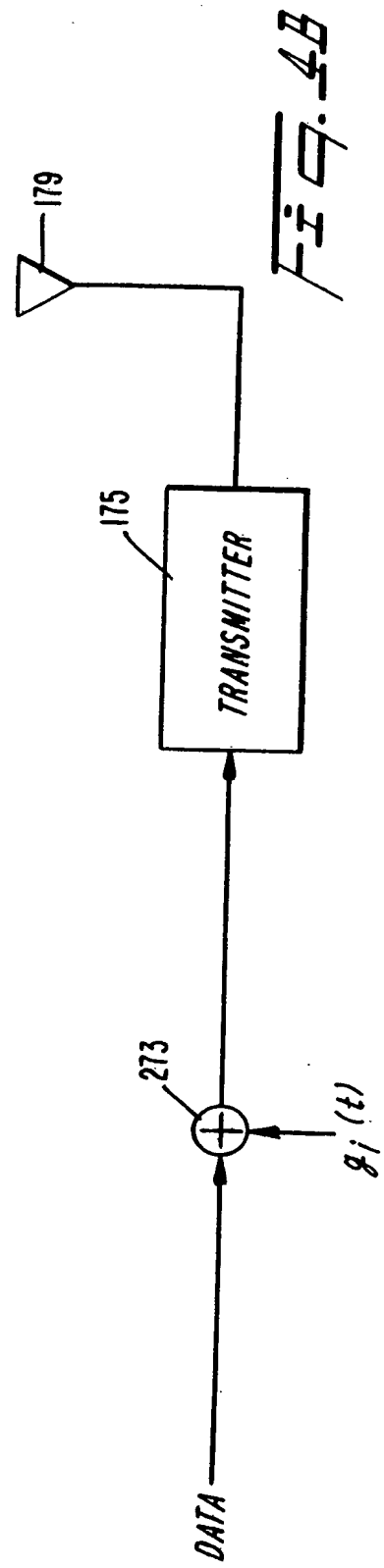
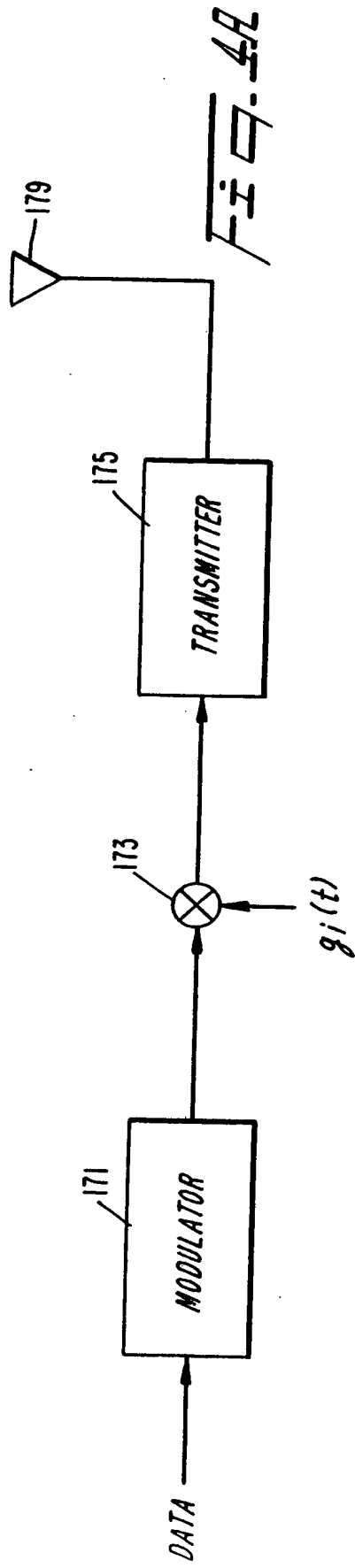
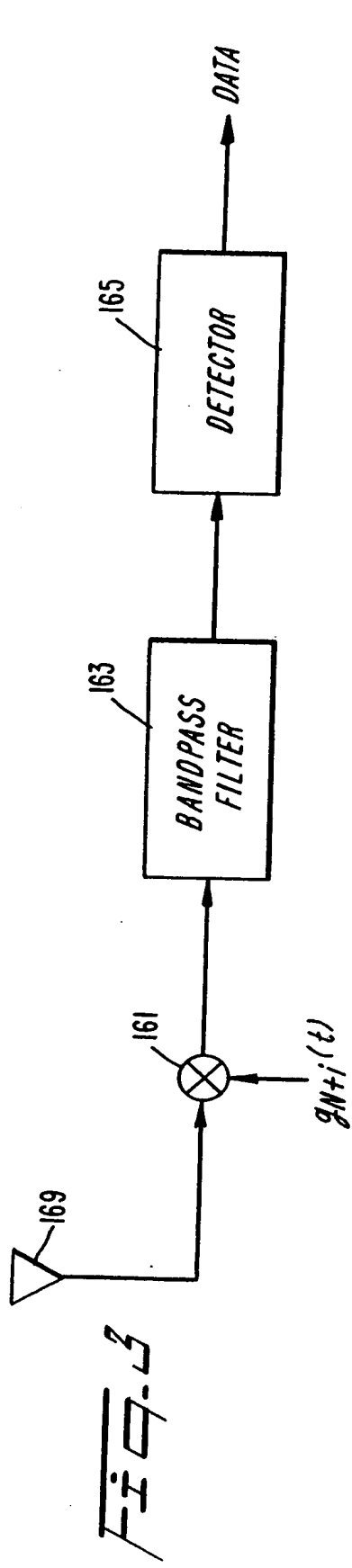


FIG. 4C

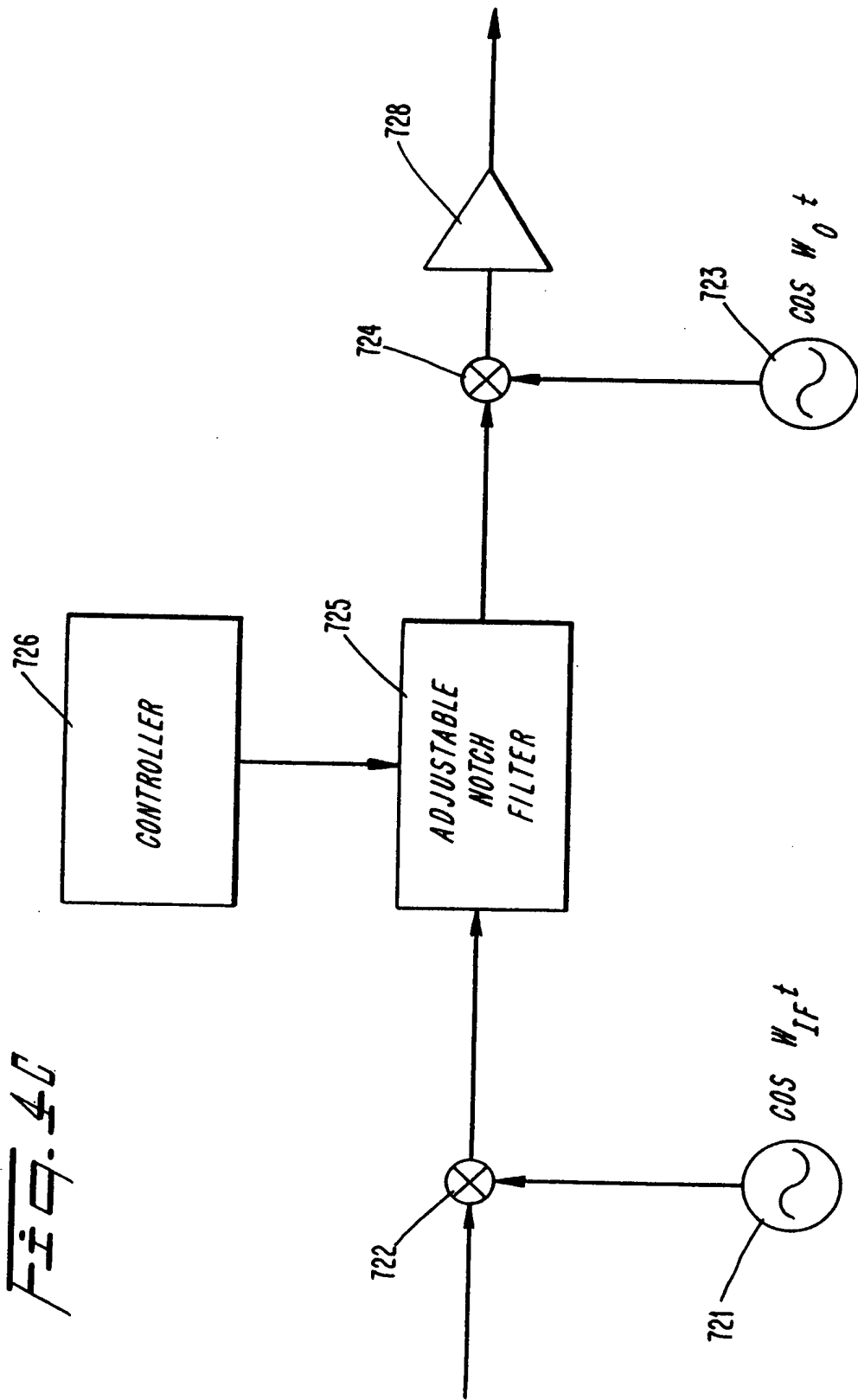


Fig. 5

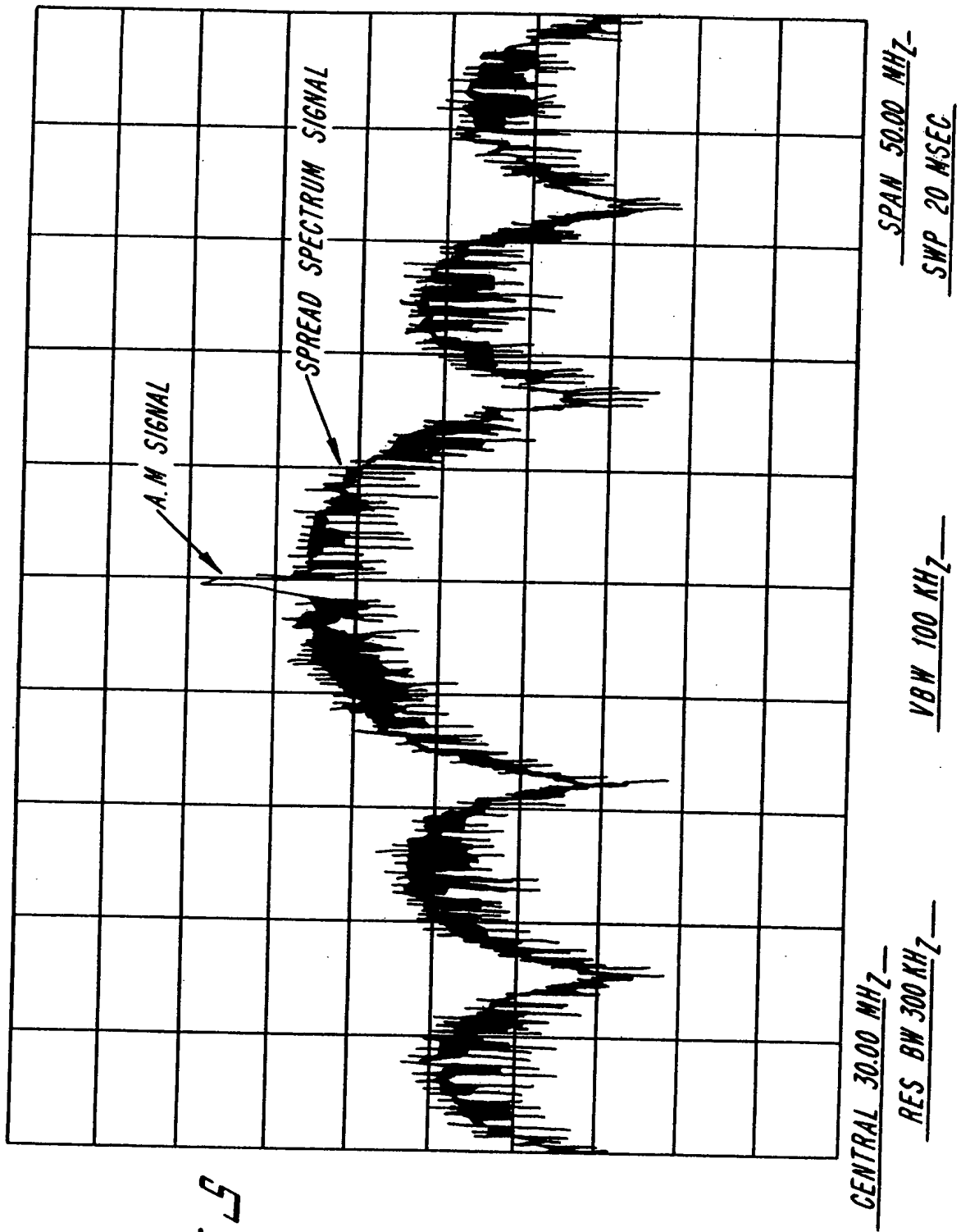


Fig. 6

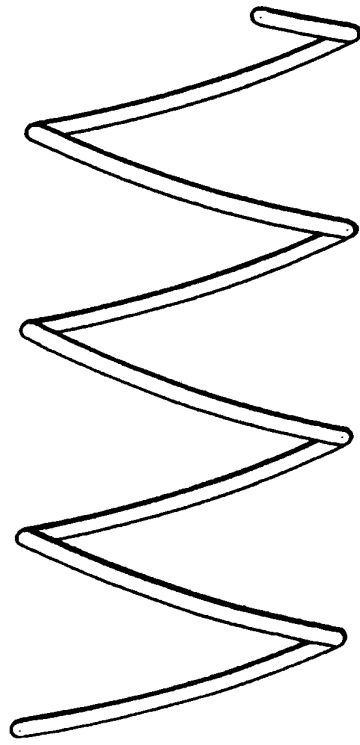
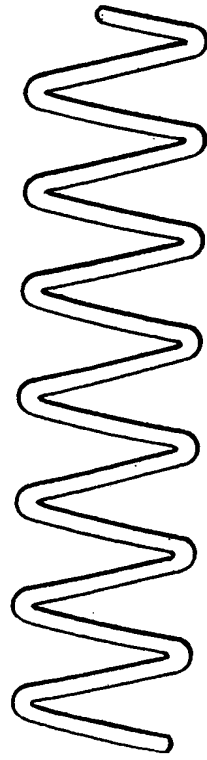


Fig. 7

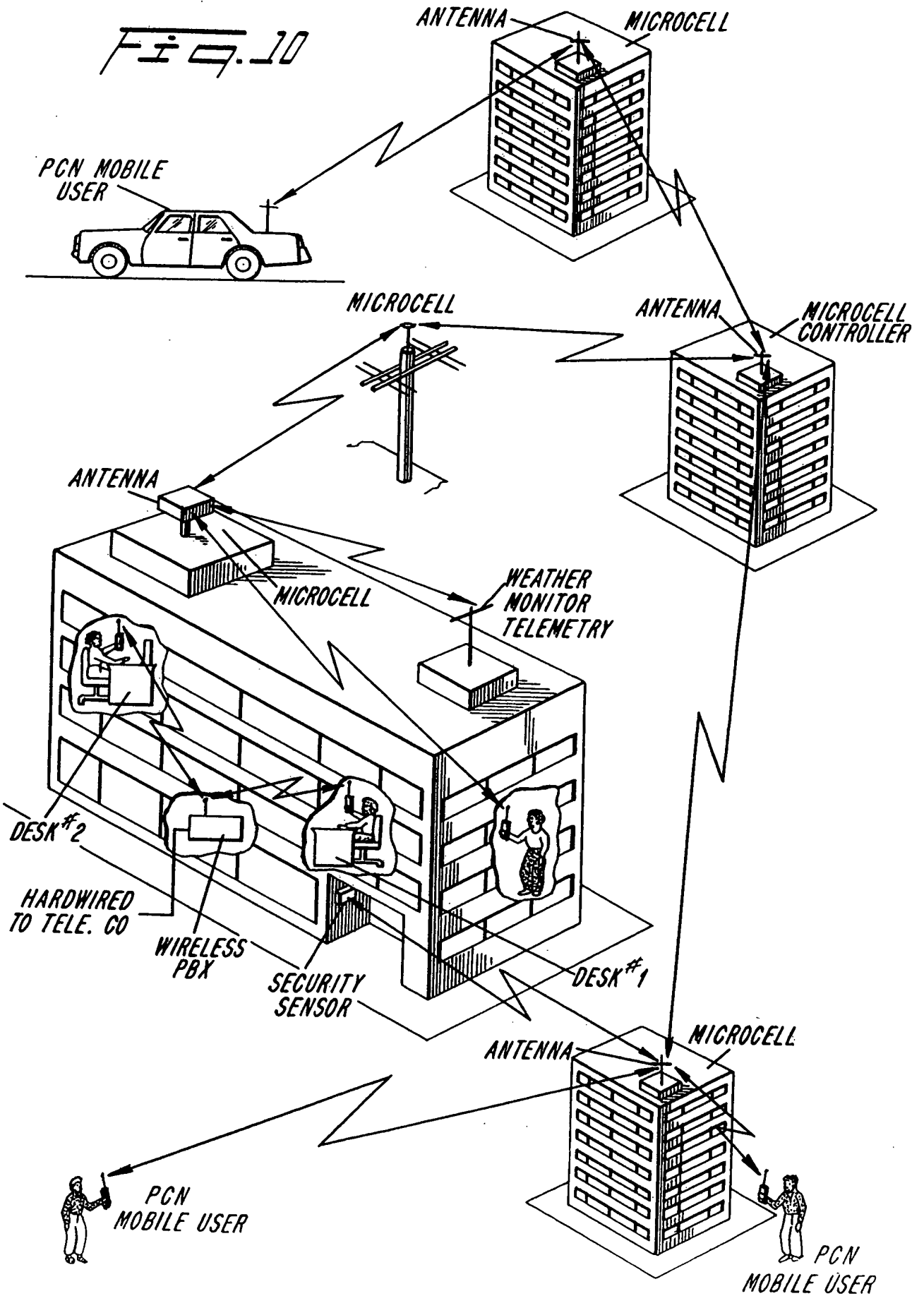


	b_0	b_1	-----	b_{N-1}								
3	0	1	1									
4	0	0	1	1								
5	0	0	1	0	1							
6	0	0	0	0	1	1						
7	0	0	0	0	1	1						
8	0	1	1	1	0	0	0	1				
9	0	0	0	0	1	0	0	0	1			
10	0	0	0	0	0	1	0	0	1			
11	0	0	0	0	0	0	1	0	1			
12	0	1	0	0	0	0	0	1	1	1		
13	1	0	0	0	0	0	0	0	1	1	1	
14	0	1	0	0	0	0	0	0	1	1	1	
15	0	0	0	0	0	0	0	0	0	0	1	1

Fig. 9

Fig. 9

Fig. 10



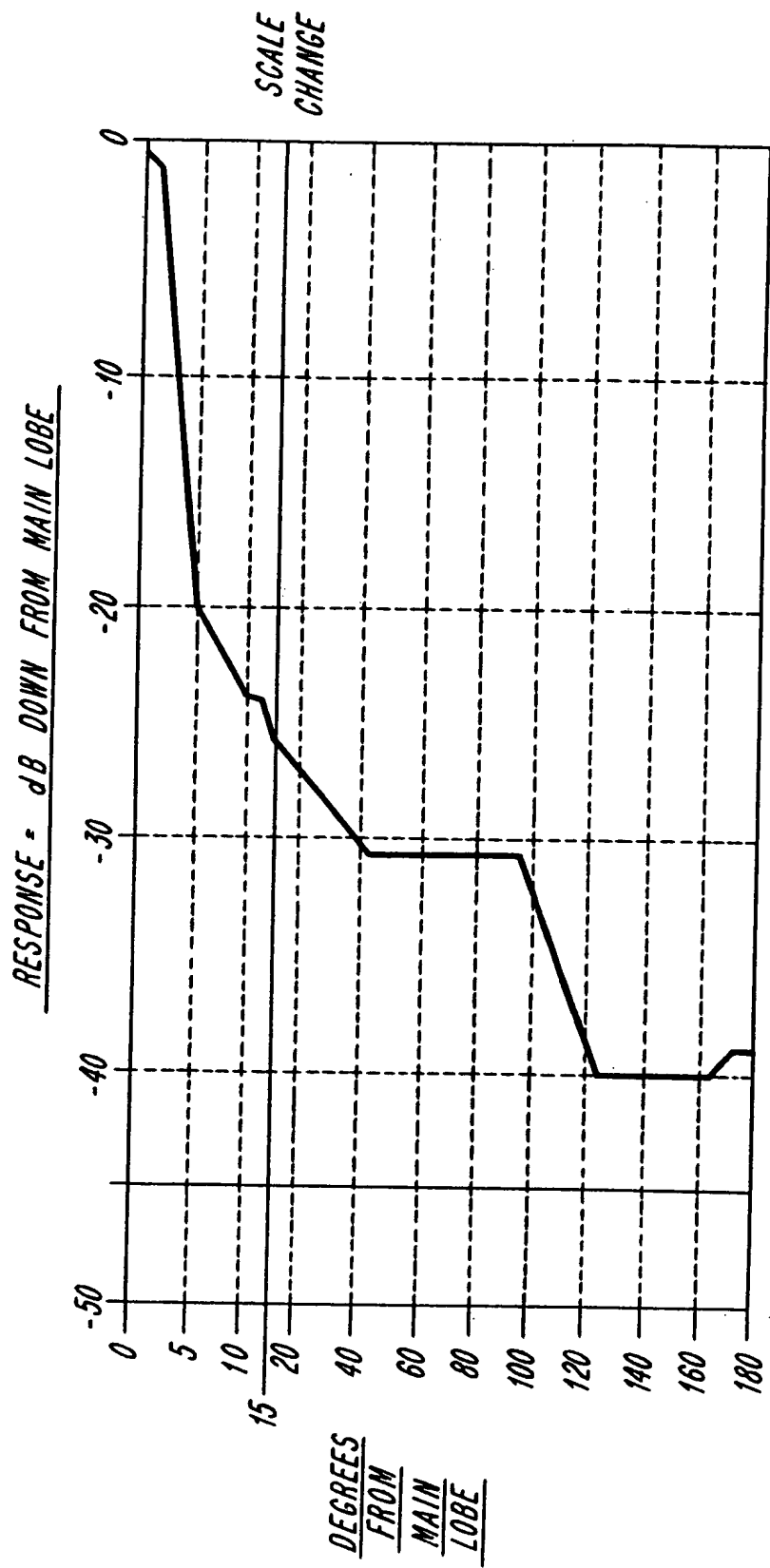


FIG. 12

FIG. 13A

BANDWIDTH = 10 MHz

FIXED SERVICE LINK PARAMETERS	
MODULATION	64-QAM
BIT RATE	45 Mb/s
LINK LENGTH	20 MILES
ANTENNA GAIN (2 AM GRID ANTENNA)	30 dB
ANTENNA BANDWIDTH (3-dB POINT)	3.2°
TRANSMIT POWER	0.5 W (27 dBm)
ANTENNA CENTER LINE HEIGHTS	200 FEET (BOTH ENDS)

FIG. 13B

S.S. CHIP RATE = 25 Mcps

PCM SYSTEM PARAMETERS	
MODULATION	SPREAD SPECTRUM
ANTENNA GAIN (HALF-WAVE DIPOLE)	2 dB
TRANSMIT POWER	1 mW (0 dBm)

FIG. 14

DISTANCE d	P_s / P_I + 1 USER dB	P_s / P_I * 10 USERS dB	P_s / P_I * 100 USERS dB
500 FT.	64	54	44
1,000 FT.	66.5	56.5	46.5
3,000 FT.	70.3	60.3	50.3
1 MILE	72.3	62.3	52.3

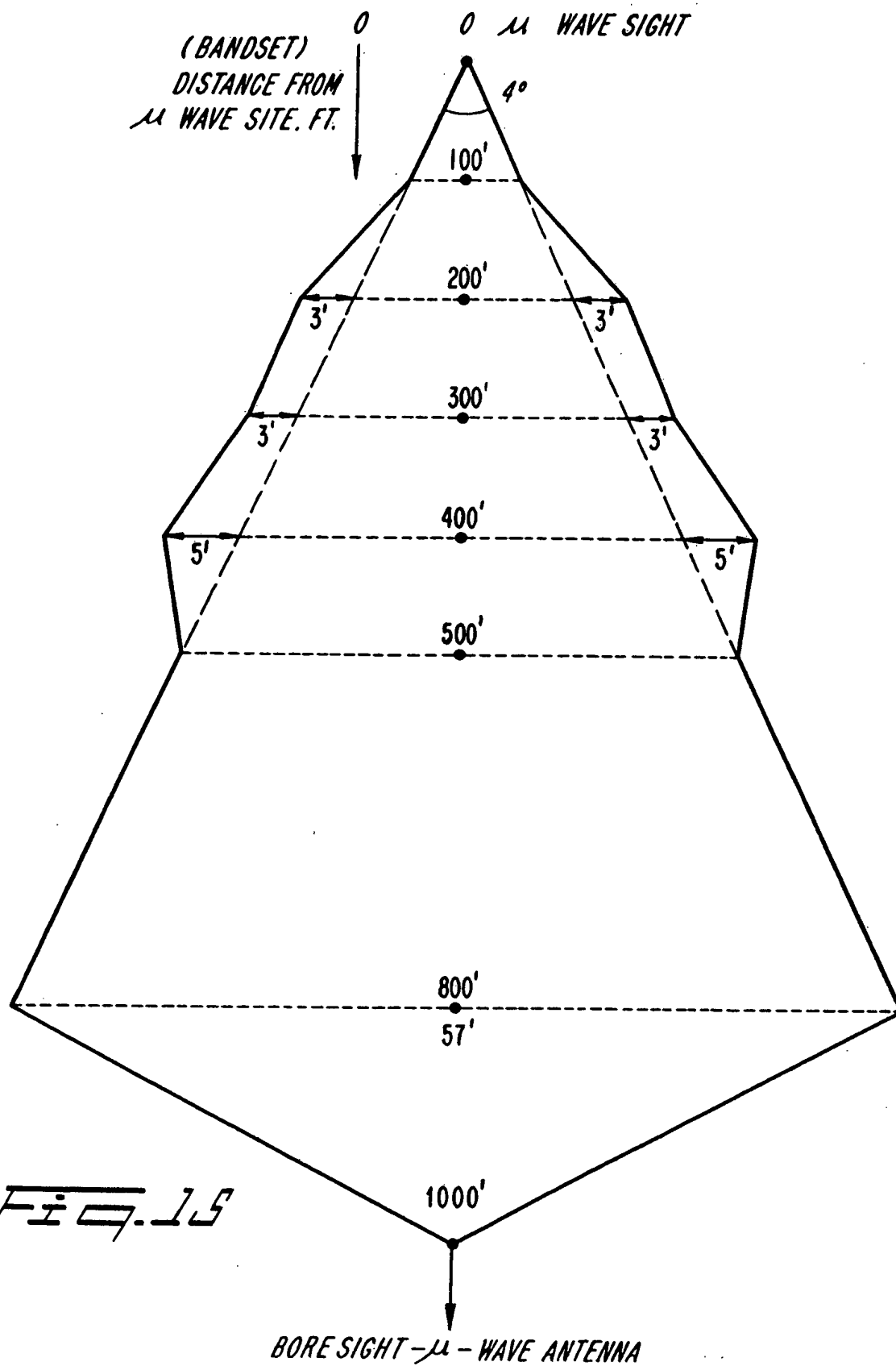


Fig. 15

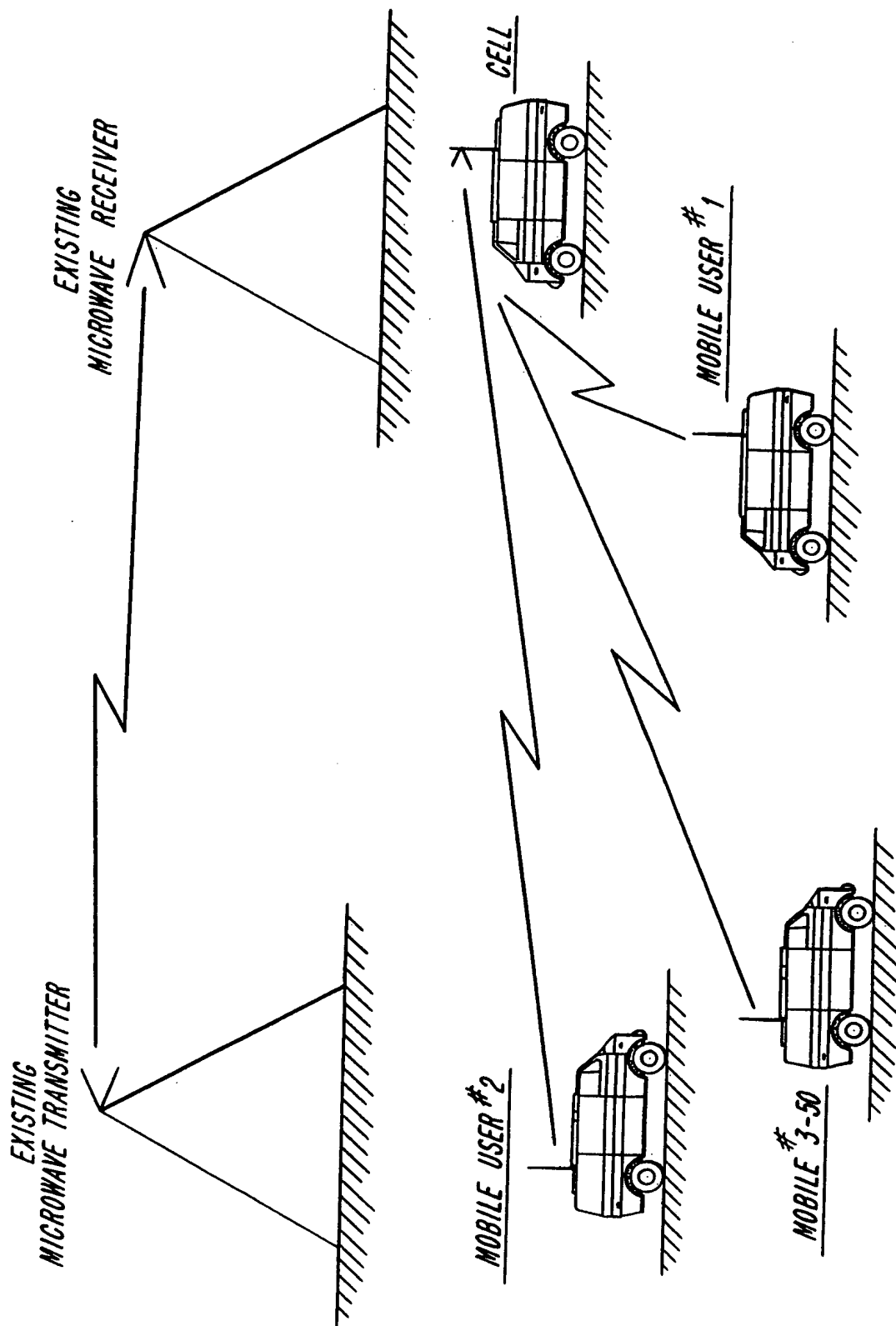


Fig. 16

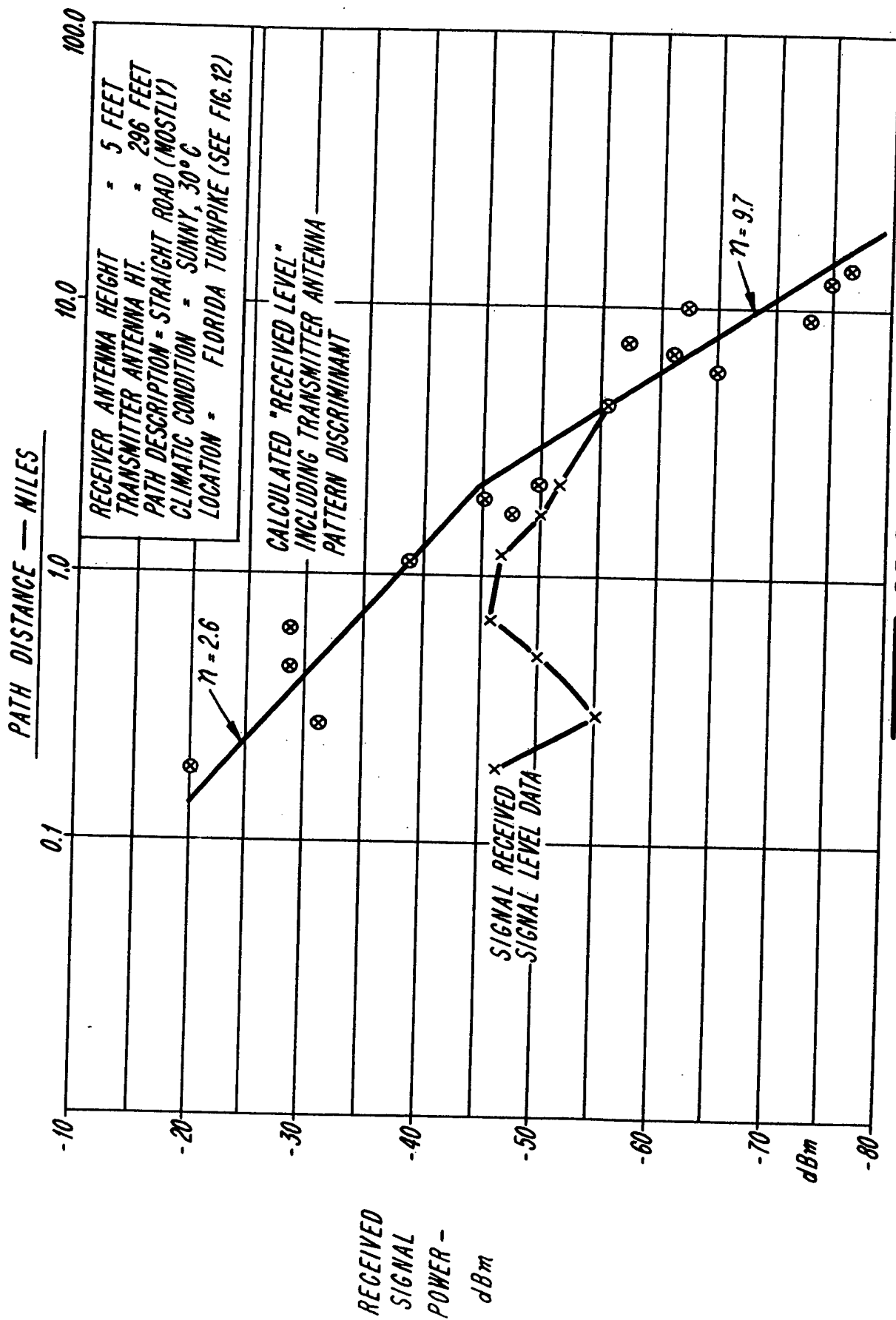


FIG. 17A

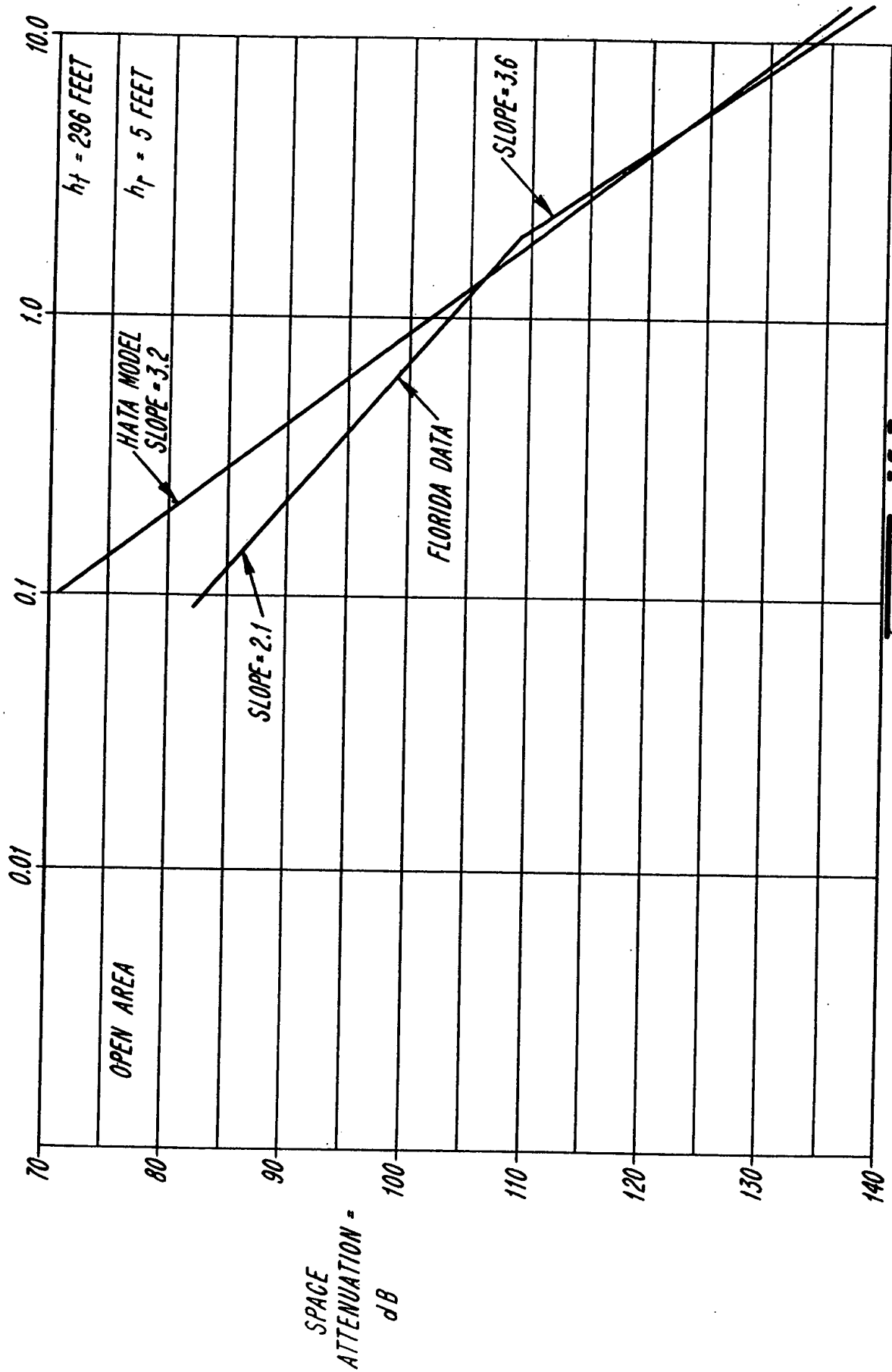


FIG. 17B

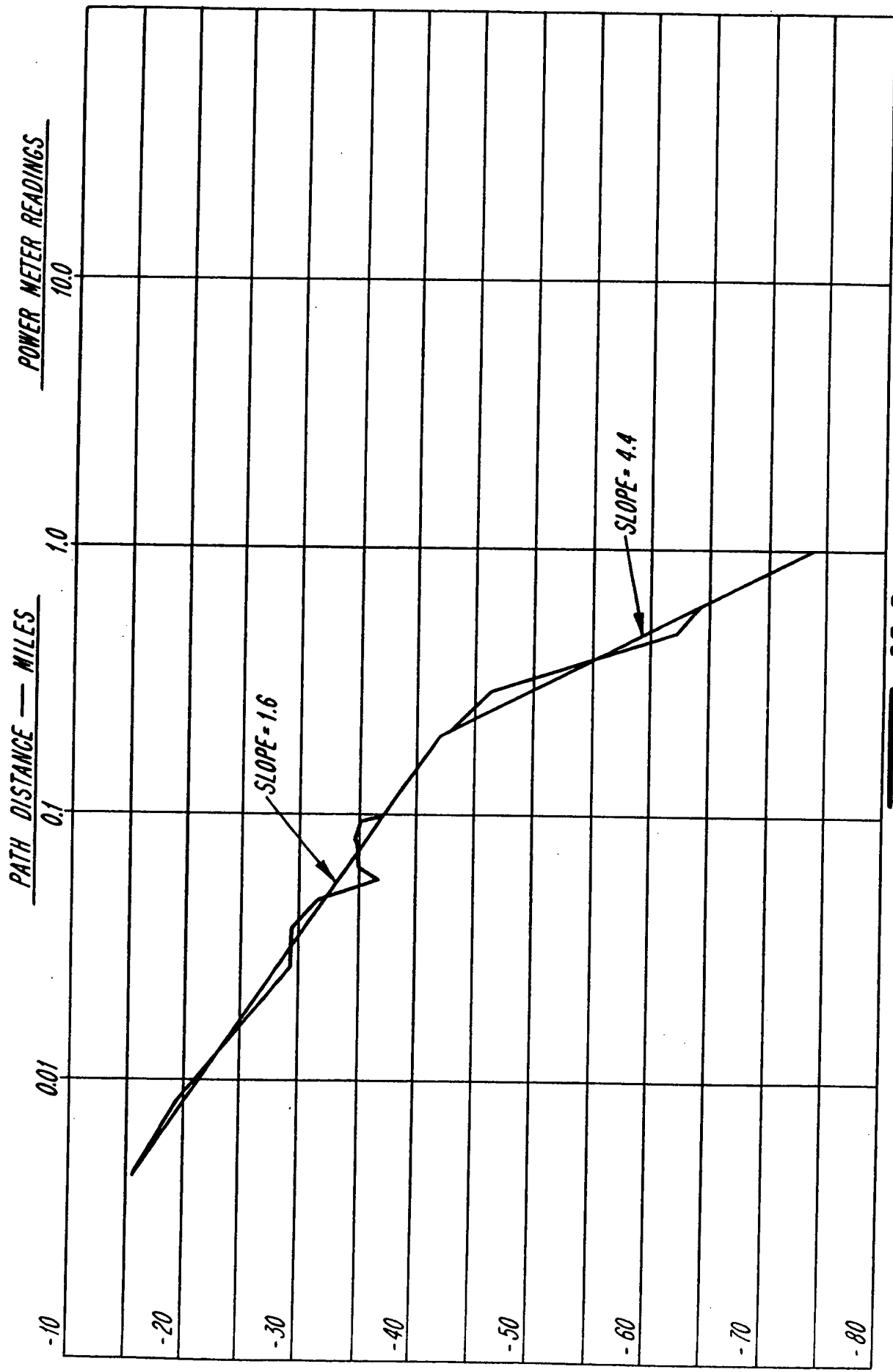


Fig. 170

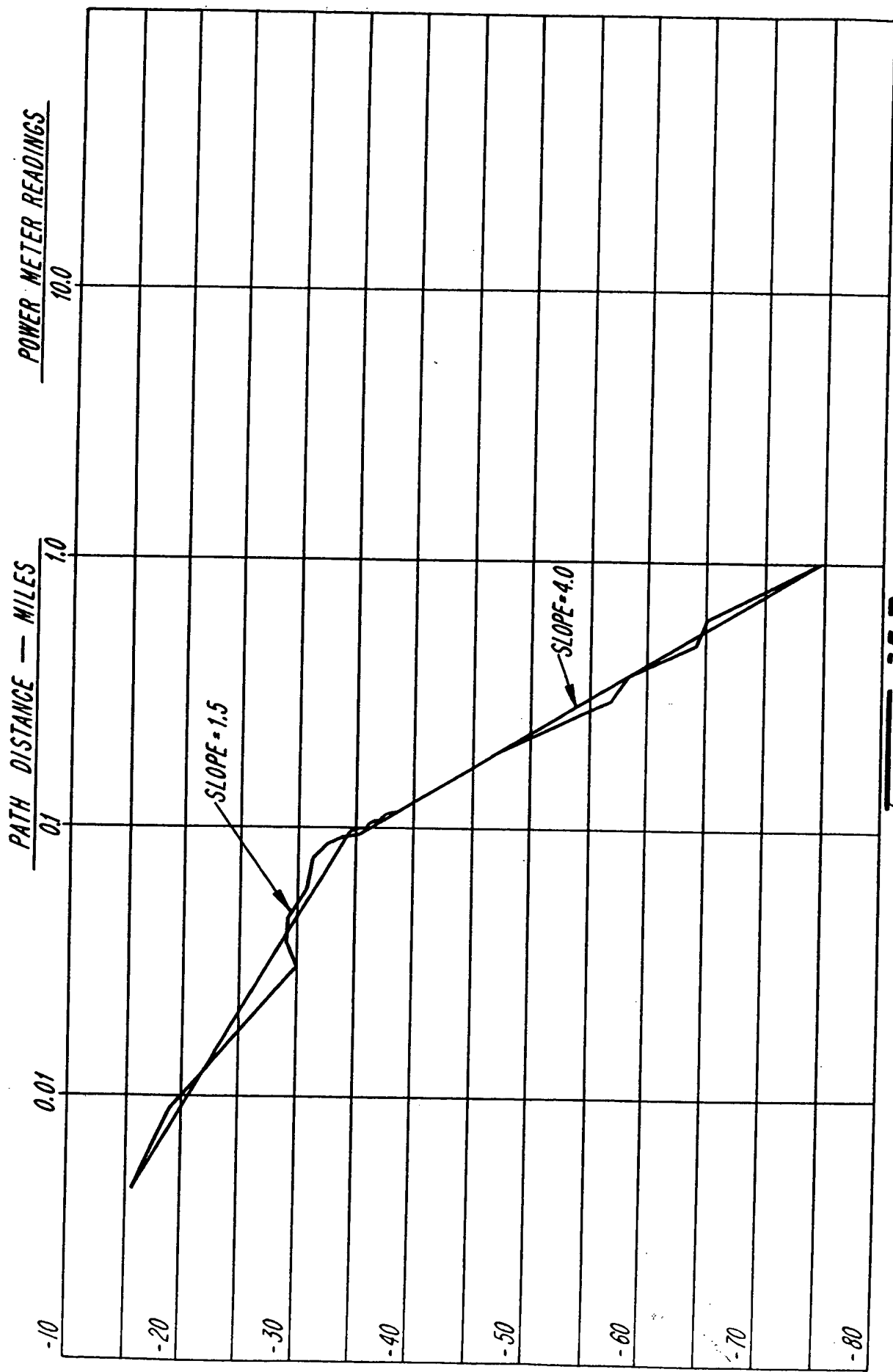


Fig. 17D

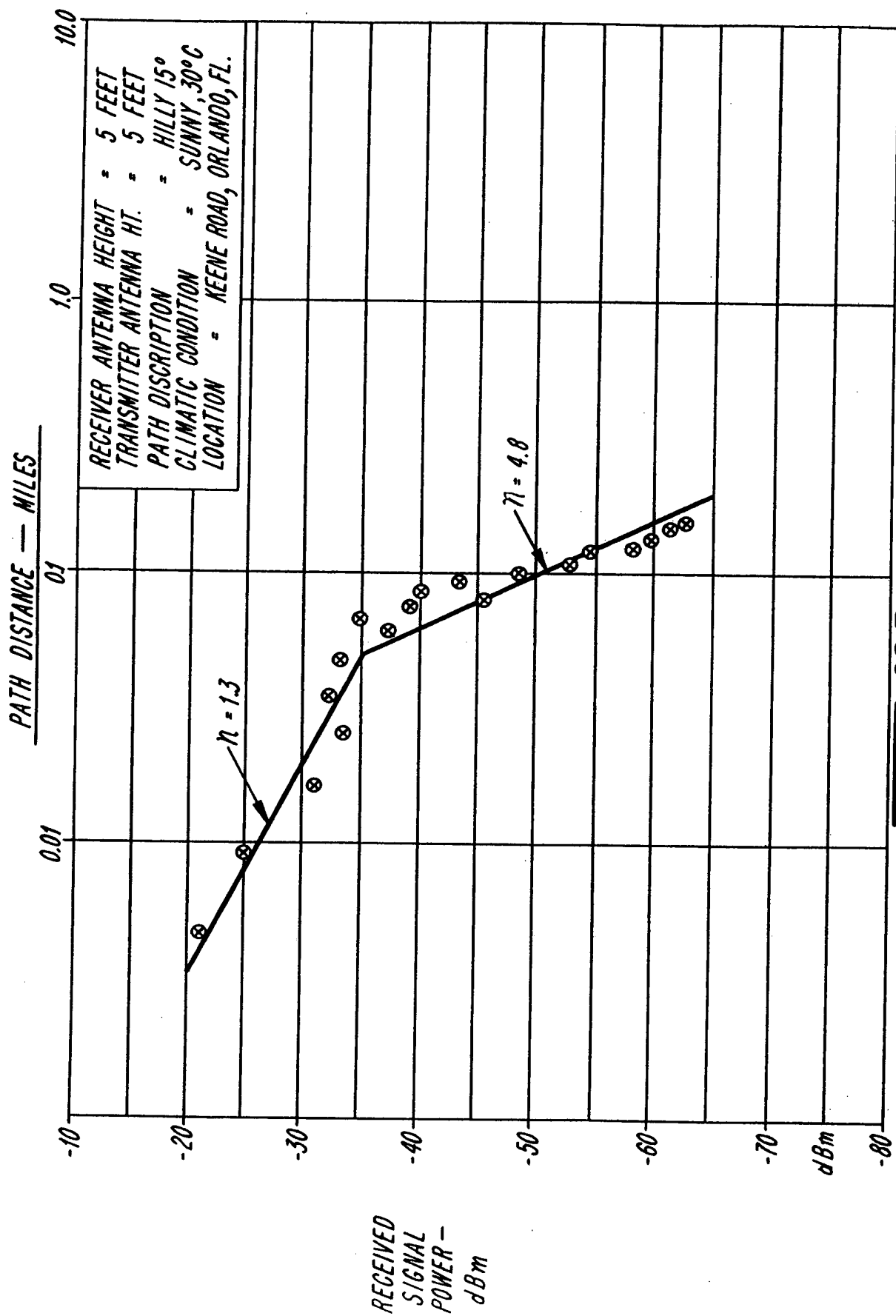


FIG. 17E

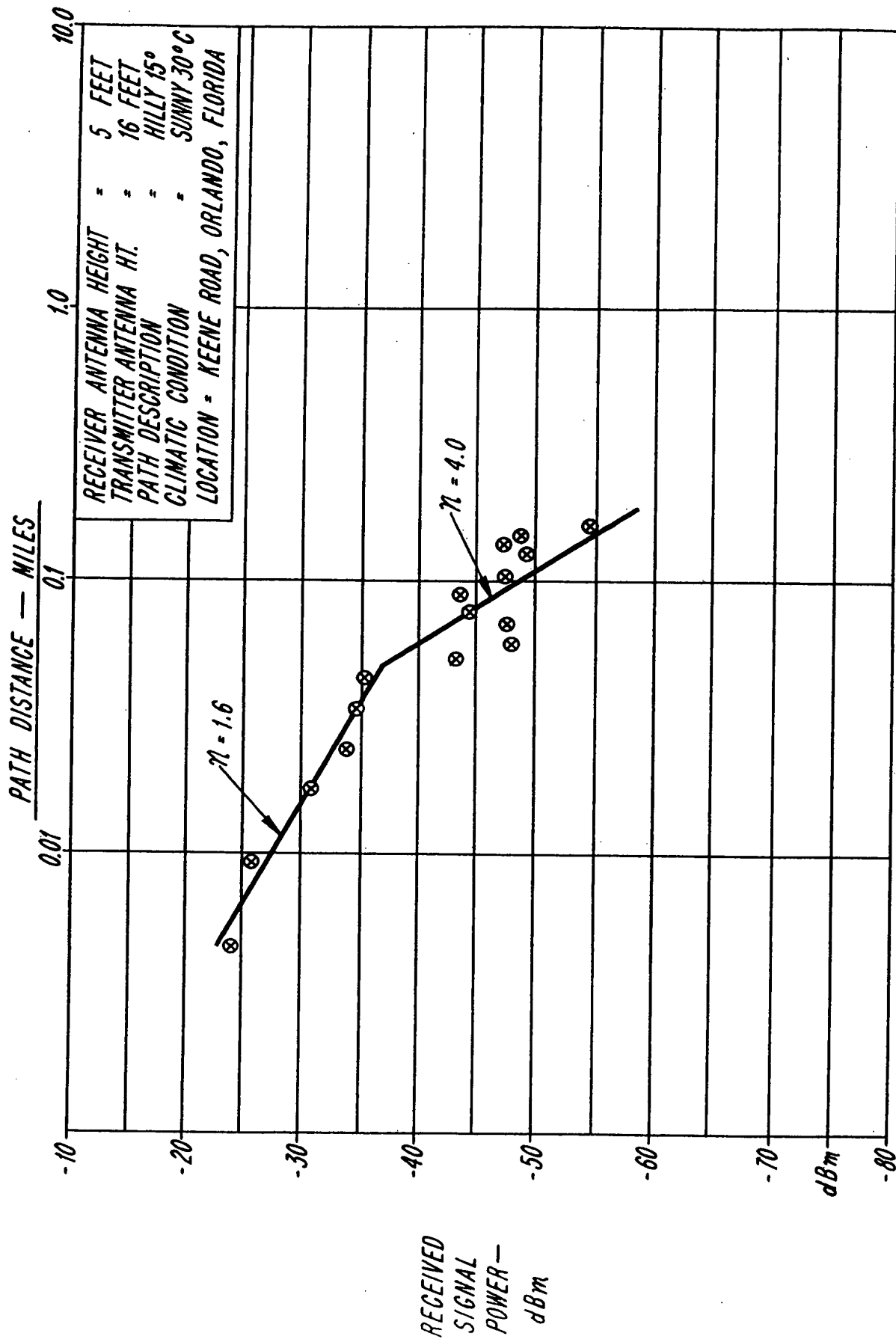


FIG. 17F

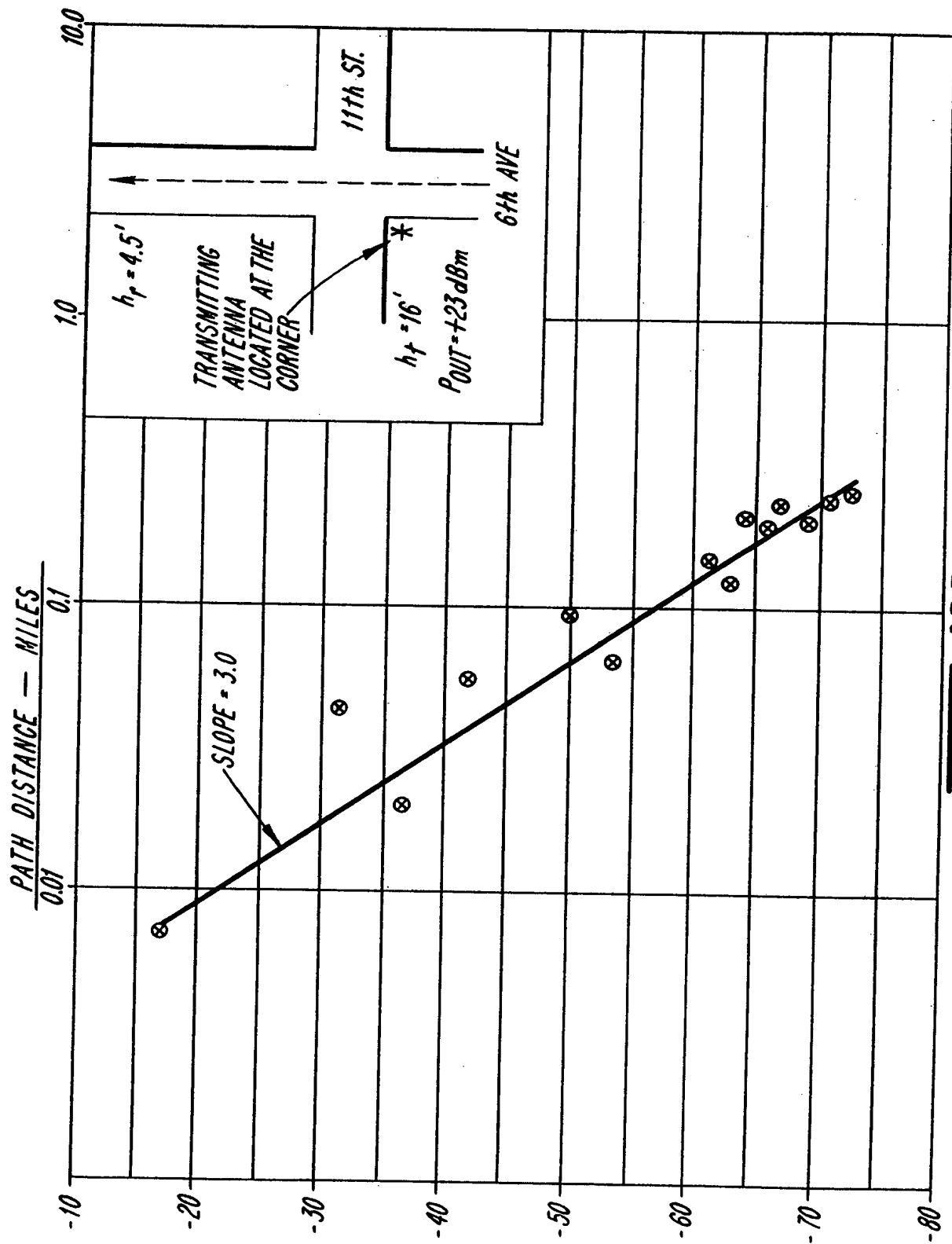


Fig. 176

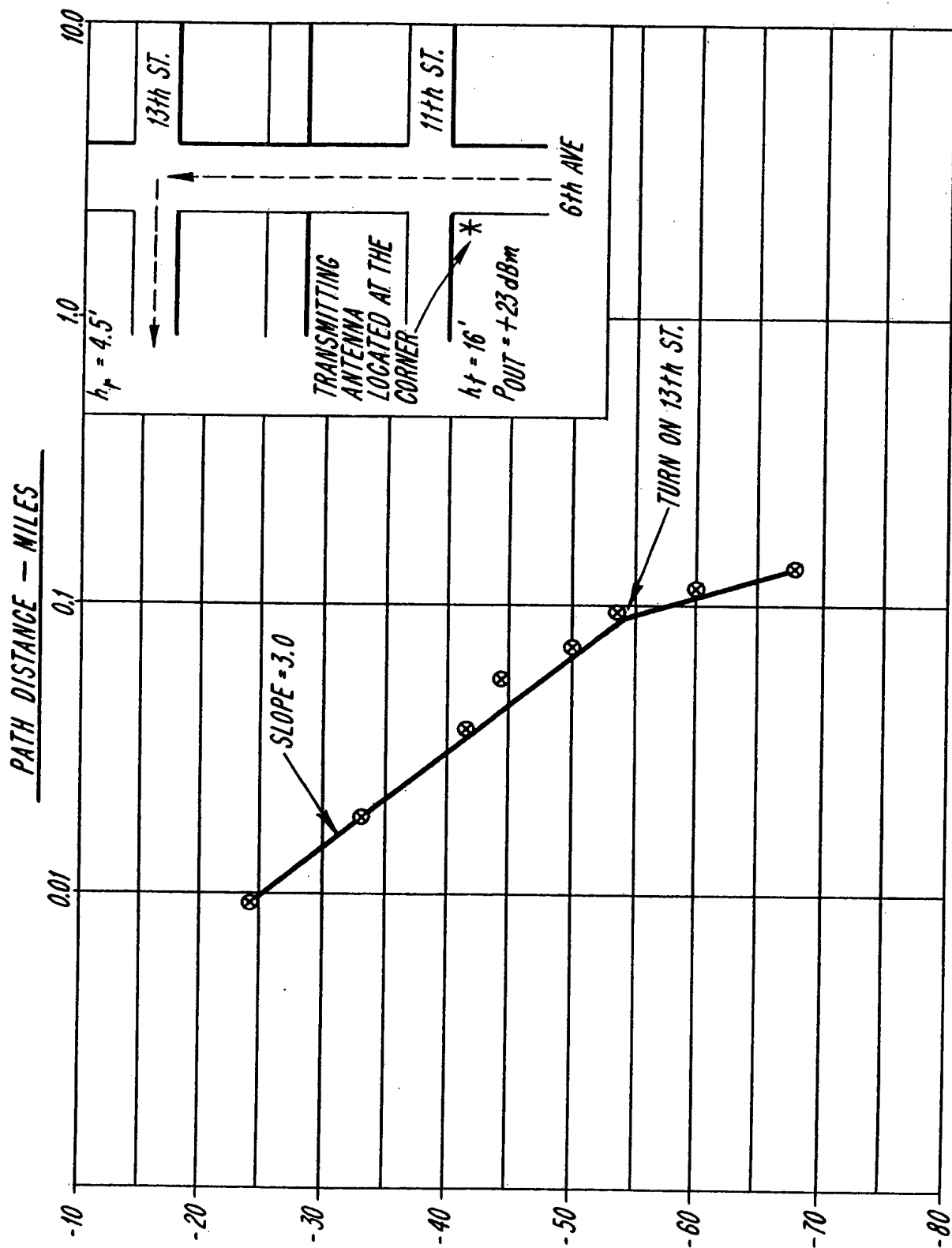


FIG. 17H

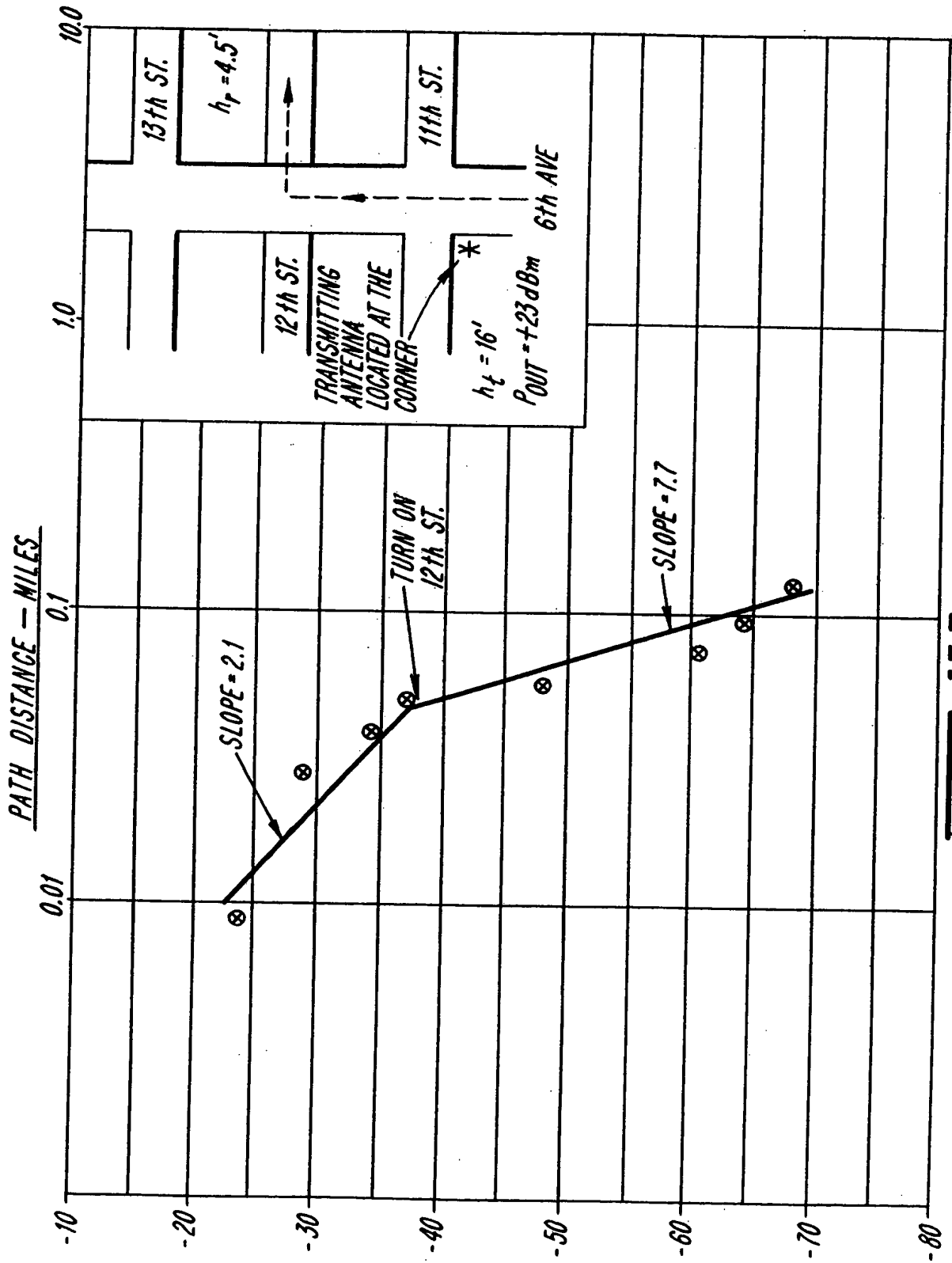


Fig. 171

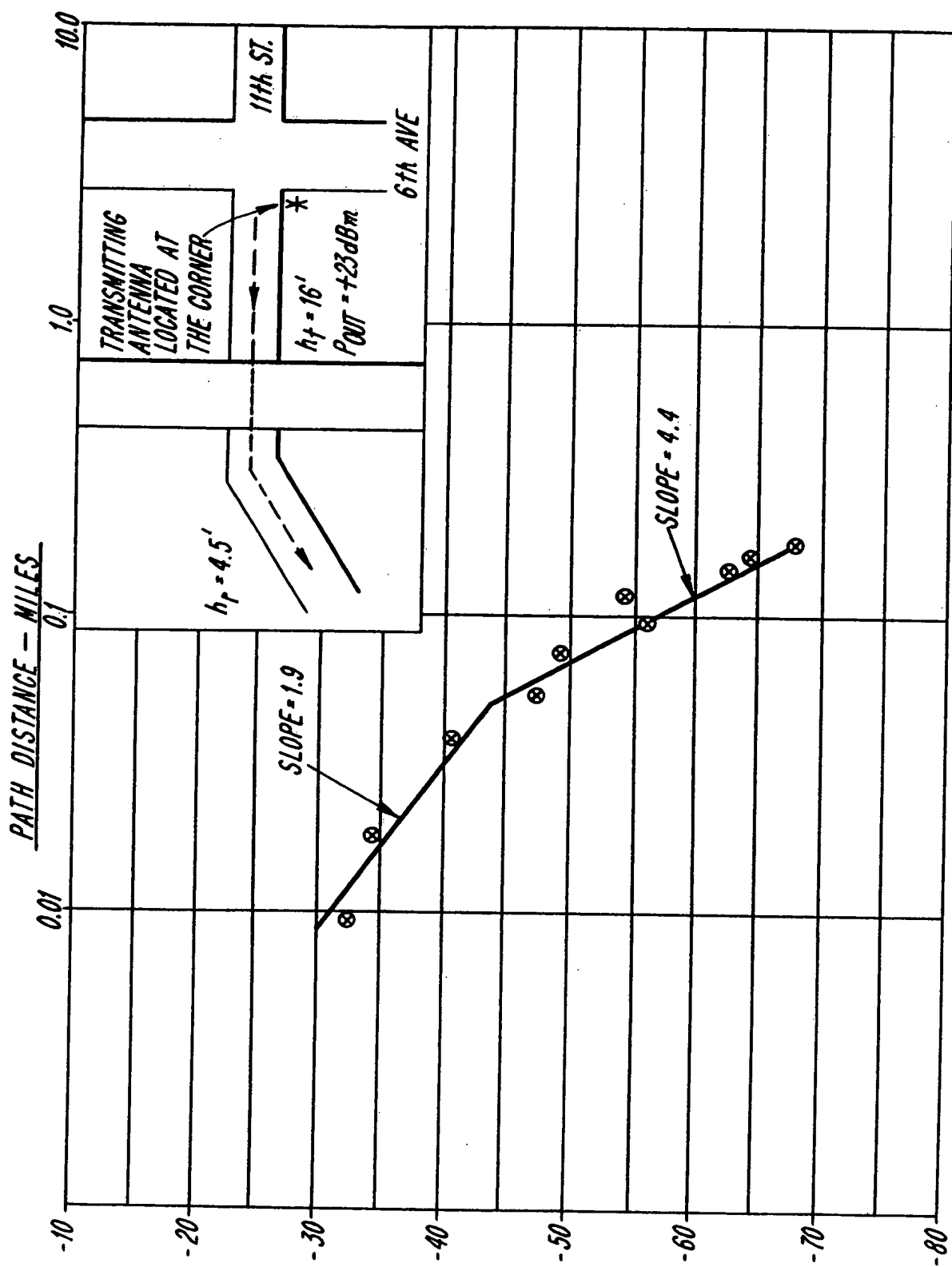


Fig. 17d

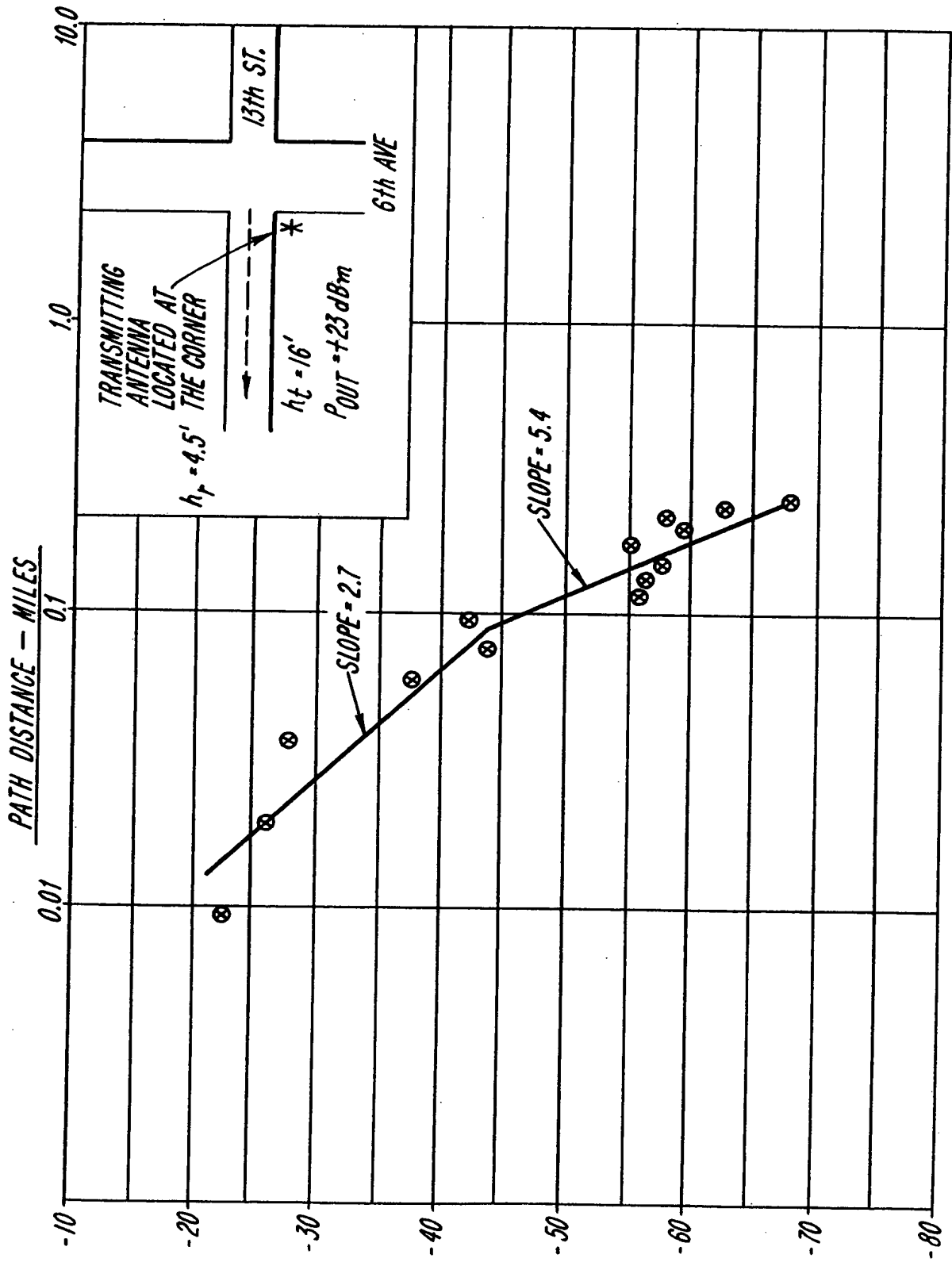


FIG. 17K

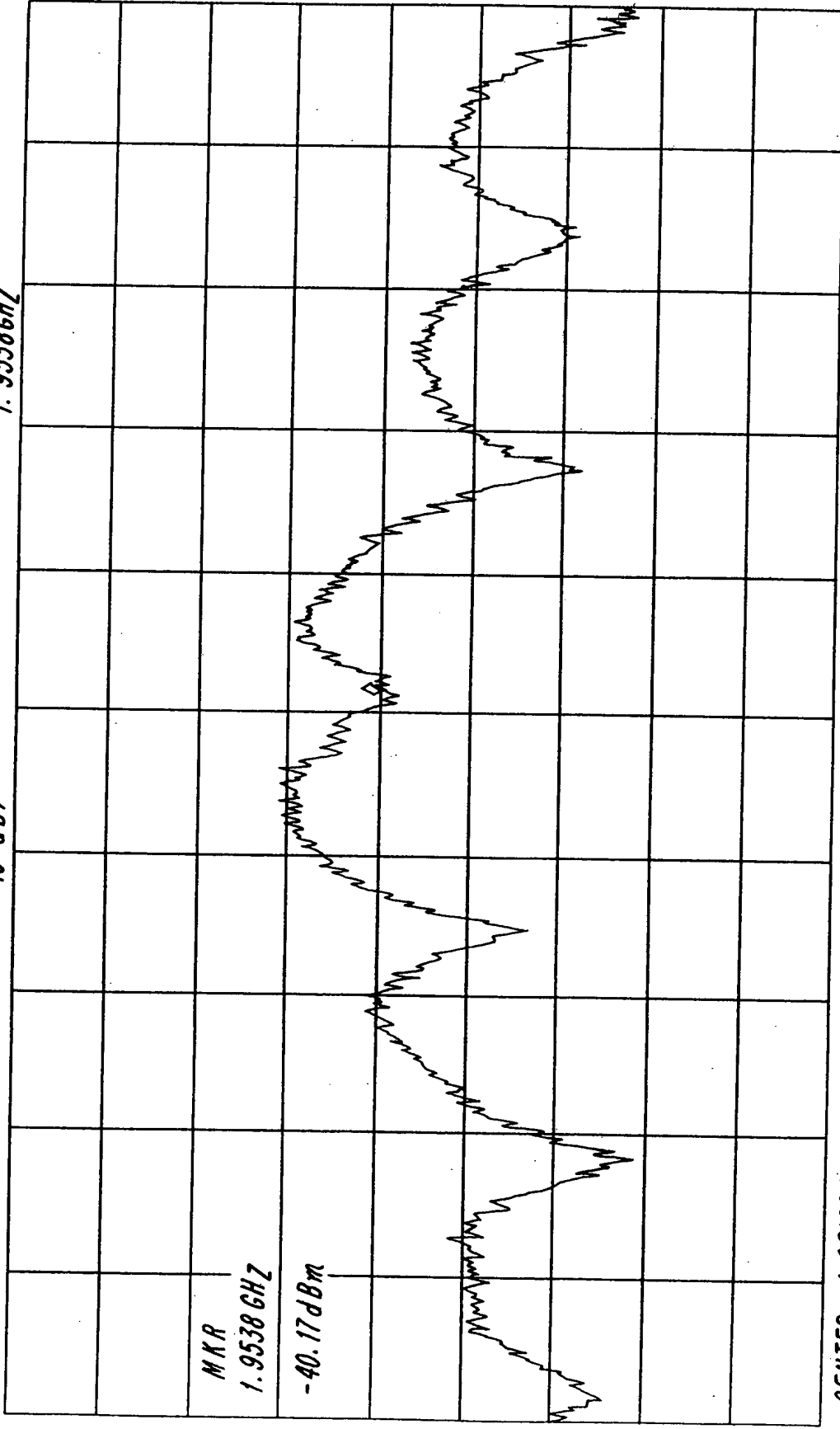
*ATTEN 10dB
RL 0dBm

MKR -40.17 dBm
1.95386HZ

10 dB/

MKR
1.95386HZ

-40.17dBm



CENTER 1.95106HZ

*RBW 300KHZ VBW 300KHZ

SPAN 150.0MHZ
SWP 50ms

FIG. 1B